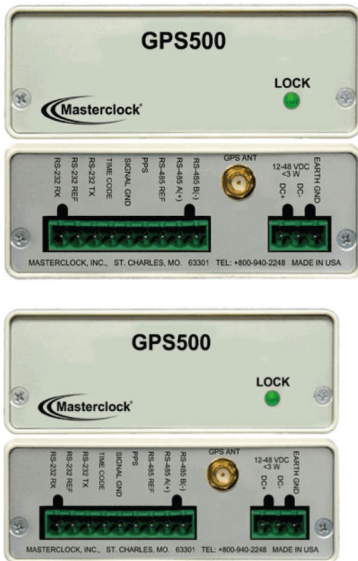


GPS500 GPS Zeitcode Generator



Der GPS500 ist ein präziser IRIG-B oder SMPTE Zeitcode Generator. Als sehr genaue Zeitquelle bezieht er seine Zeitinformationen aus den Atomuhren des GPS Satellitensystems. Das Gerät extrahiert die Zeitinformationen aus dem Satellitensignal und generiert einen Zeitcode, der mit einer Genauigkeit von besser als 10 Microsekunden auf UTC (Universal Coordinated Time) synchronisiert ist.

Rating: Not Rated Yet

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Manufacturer [Masterclock Inc.](#)

Description

[Datenblätter](#)

Features

- Generates SMPTE, EBU or IRIG-B Time Codes
- Synchronized to atomic clocks in GPS satellites
- -11.5 to +12 hour time zone offsets in 30-minute increments
- Automatic Daylight Saving Time
- NMEA/Kinemetrics/Truetime serial protocol output
- Wide DC power supply input range: 12 to 48 VDC
- Switch selectable Time Zone and DST
- Switch selectable format and baud rate

Specifications

Time Reference

Timing Equipment: GPS500 GPS Zeitcode Generator

- When synchronized, the Time Code accuracy is:
 - SMPTE output accuracy of ± 20 microseconds
 - IRIG-B0 (DCLS/PWM) output accuracy of ± 90 microseconds
 - IRIG-B1 (AM) output accuracy of ± 1.4 milliseconds
 - PPS output accuracy of ± 60 nanoseconds
- Should the GPS500 lose GPS signal it will revert to an internal TCXO oscillator and maintain an accuracy of ± 1 minute per year. The PPS output is synchronized to the internal TCXO oscillator.

Outputs

- SMPTE Time Code
 - SMPTE, EBU:30, 25 or 24fps
- IRIG-B Time Code
 - IRIG-B: 1 kHz modulated, level - 5 Vpp
 - IRIG-B: unmodulated, single ended 5 V
- PPS
 - 5 V-TTL, accuracy ± 60 nanoseconds (when synchronized to GPS)
 - Pulse width configurable via switch from ~ 200 ms to ~ 1 ms
- Serial output via RS-232/RS-485 NMEA Kinematics/Truetime protocol
- Date encoded references (IRIG 1344 and SMPTE Leitch date format or 309M)

Connectors

- Output: 9-pin removable terminal block
- Power plug: 3-pin removable terminal block
- Antenna: SMA female

Case

- Cover: Off-white aluminum
- Front/rear panel: Clear anodized aluminum

Compliance

- FCC, CE Marked, ROHS, ANSI

Power Supply

- DC input (12-48 VDC)
- 12 VDC external wall mount supplied; UL, CE listed
- Supplied with US, Euro-plug, British or AUS/NZ, other plugs available

Antenna Options

- Basic antenna package includes magnetic GPS antenna and 15' (5m) of cable
- Standard antenna package includes outdoor GPS antenna, mounting kit, and 50' (15m) of cable